1					M	A	P	L	C	P	S	P	W	L	P	L	12
1	ACA	GTC	AGC	CGC	ATG	GCT	CCC	CTG	TGC	CCC	AGC	CCC	TGG	CTC	CCT	CTG	48
13	L	I	P	A	P	A	P	G	L	T	V	Q	L	L	L	S	28
49	TTG	ATC	CCG	GCC	CCT	GCT	CCA	GGC	CTC	ACT	GTG	CAA	CTG	CTG	CTG	TCA	96
29	L	L	L	L	M	P	V	H	P	Q	R	L	P	R	M	Q	44
97	CTG	CTG	CTT	CTG	ATG	CCT	GTC	CAT	CCC	CAG	AGG	TTG	CCC	CGG	ATG	CAG	144
45	E	D	S	P	L	G	G	G	S	S	G	E	D	D	P	L	60
145	GAG	GAT	TCC	CCC	TTG	GGA	GGA	GGC	TCT	TCT	GGG	GAA	GAT	GAC	CCA	CTG	192
61	G	E	E	D	L	P	S	E	E	D	S	P	R	E	E	D	76
193	GGC	GAG	GAG	GAT	CTG	CCC	AGT	GAA	GAG	GAT	TCA	CCC	AGA	GAG	GAG	GAT	240
77	P	P	G	E	E	D	L	P	G	E	E	D	L	P	G	E	92
241	CCA	CCC	GGA	GAG	GAG	GAT	CTA	CCT	GGA	GAG	GAG	GAT	CTA	CCT	GGA	GAG	288
93	E	D	L	P	E	V	K	P	K	S	E	E	E	G	S	L	108
289	GAG	GAT	CTA	CCT	GAA	GTT	AAG	CCT	AAA	TCA	GAA	GAA	GAG	GGC	TCC	CTG	336
109	K	L	E	D	L	P	T	V	E	A	P	G	D	P	Q	E	124
337	AAG	TTA	GAG	GAT	CTA	CCT	ACT	GTT	GAG	GCT	CCT	GGA	GAT	CCT	CAA	GAA	384
125	P	Q	N	N	A	H	R	D	K	E	G	D	D	Q	S	H	140
385	CCC	CAG	AAT	AAT	GCC	CAC	AGG	GAC	AAA	GAA	GGG	GAT	GAC	CAG	AGT	CAT	432
141	W	R	Y	G	G	D	P	P	W	P	R	V	S	P	A	C	156
433	TGG	CGC	TAT	GGA	GGC	GAC	CCG	CCC	TGG	CCC	CGG	GTG	TCC	CCA	GCC	TGC	480
157	A	G	R	F	Q	S	P	V	D	I	R	P	Q	L	A	A	172
481	GCG	GGC	CGC	TTC	CAG	TCC	CCG	GTG	GAT	ATC	CGC	CCC	CAG	CTC	GCC	GCC	528

FIG._1A

```
173   F   C   P   A   L   R   P   L   E   L   L   G   F   Q   L   P   188
529 TTC TGC CCG GCC CTG CGC CCC CTG GAA CTC CTG GGC TTC CAG CTC CCG   576

189   P   L   P   E   L   R   L   R   N   N   G   H   S   V   Q   L   204
577 CCG CTC CCA GAA CTG CGC CTG CGC AAC AAT GGC CAC AGT GTG CAA CTG   624

205   T   L   P   P   G   L   E   M   A   L   G   P   G   R   E   Y   220
625 ACC CTG CCT CCT GGG CTA GAG ATG GCT CTG GGT CCC GGG CGG GAG TAC   672

221   R   A   L   Q   L   H   L   H   W   G   A   A   G   R   P   G   236
673 CGG GCT CTG CAG CTG CAT CTG CAC TGG GGG GCT GCA GGT CGT CCG GGC   720

237   S   E   H   T   V   E   G   H   R   F   P   A   E   I   H   V   252
721 TCG GAG CAC ACT GTG GAA GGC CAC CGT TTC CCT GCC GAG ATC CAC GTG   768

253   V   H   L   S   T   A   F   A   R   V   D   E   A   L   G   R   268
769 GTT CAC CTC AGC ACC GCC TTT GCC AGA GTT GAC GAG GCC TTG GGG CGC   816

269   P   G   G   L   A   V   L   A   A   F   L   E   E   G   P   E   284
817 CCG GGA GGC CTG GCC GTG TTG GCC GCC TTT CTG GAG GAG GGC CCG GAA   864

285   E   N   S   A   Y   E   Q   L   L   S   R   L   E   E   I   A   300
865 GAA AAC AGT GCC TAT GAG CAG TTG CTG TCT CGC TTG GAA GAA ATC GCT   912

301   E   E   G   S   E   T   Q   V   P   G   L   D   I   S   A   L   316
913 GAG GAA GGC TCA GAG ACT CAG GTC CCA GGA CTG GAC ATA TCT GCA CTC   960

317   L   P   S   D   F   S   R   Y   F   Q   Y   E   G   S   L   T   332
961 CTG CCC TCT GAC TTC AGC CGC TAC TTC CAA TAT GAG GGG TCT CTG ACT  1008

333   T   P   P   C   A   Q   G   V   I   W   T   V   F   N   Q   T   348
1009 ACA CCG CCC TGT GCC CAG GGT GTC ATC TGG ACT GTG TTT AAC CAG ACA  1056
```

FIG._1B

```
 349   V   M   L   S   A   K   Q   L   H   T   L   S   D   T   L   W   364
1057 GTG ATG CTG AGT GCT AAG CAG CTC CAC ACC CTC TCT GAC ACC CTG TGG  1104

 365   G   P   G   D   S   R   L   Q   L   N   F   R   A   T   Q   P   380
1105 GGA CCT GGT GAC TCT CGG CTA CAG CTG AAC TTC CGA GCG ACG CAG CCT  1152

 381   L   N   G   R   V   I   E   A   S   F   P   A   G   V   D   S   396
1153 TTG AAT GGG CGA GTG ATT GAG GCC TCC TTC CCT GCT GGA GTG GAC AGC  1200

 397   S   P   R   A   A   E   P   V   Q   L   N   S   C   L   A   A   412
1201 AGT CCT CGG GCT GCT GAG CCA GTC CAG CTG AAT TCC TGC CTG GCT GCT  1248

 413   G   D   I   L   A   L   V   F   G   L   L   F   A   V   T   S   428
1249 GGT GAC ATC CTA GCC CTG GTT TTT GGC CTC CTT TTT GCT GTC ACC AGC  1296

 429   V   A   F   L   V   Q   M   R   R   Q   H   R   R   G   T   K   444
1297 GTC GCG TTC CTT GTG CAG ATG AGA AGG CAG CAC AGA AGG GGA ACC AAA  1344

 445   G   G   V   S   Y   R   P   A   E   V   A   E   T   G   A   *   460
1345 GGG GGT GTG AGC TAC CGC CCA GCA GAG GTA GCC GAG ACT GGA GCC TAG  1392

1393 AGG CTG GAT CTT GGA GAA TGT GAG AAG CCA GCC AGA GGC ATC TGA GGG  1440

1441 GGA GCC GGT AAC TGT CCT GTC CTG CTC ATT ATG CCA CTT CCT TTT AAC  1488

1489 TGC CAA GAA ATT TTT TAA AAT AAA TAT TTA TAA T                    1522
```

FIG._1C

FIG._1

FIG._1A
FIG._1B
FIG._1C

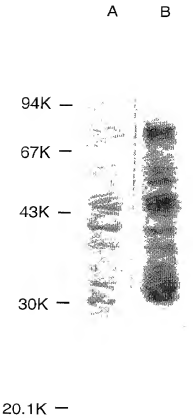


FIG._2

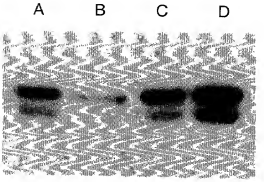


FIG._3

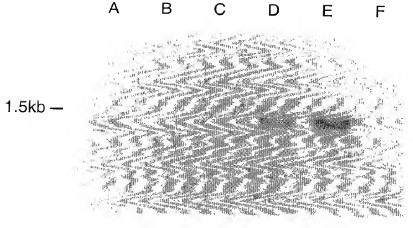


FIG._4

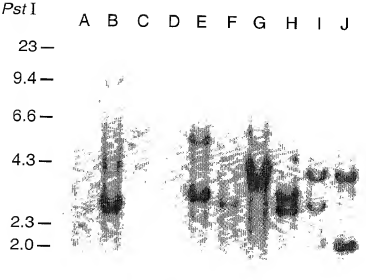


FIG._5

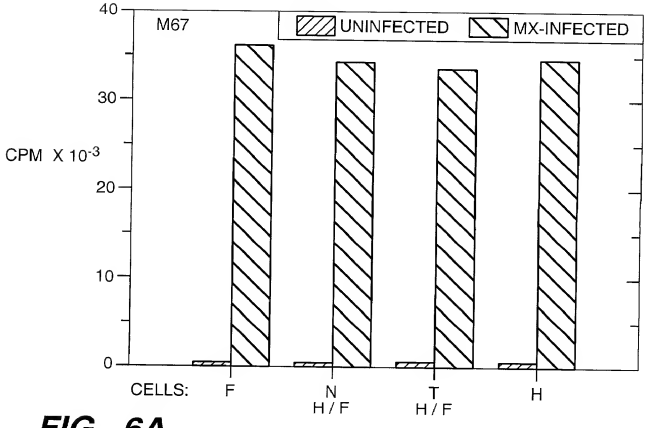

M67
UNINFECTED
MX-INFECTED
CPM X 10-3
40
30
20
10
0
CELLS:
F
N
H / F
T
H / F
H

FIG._6A

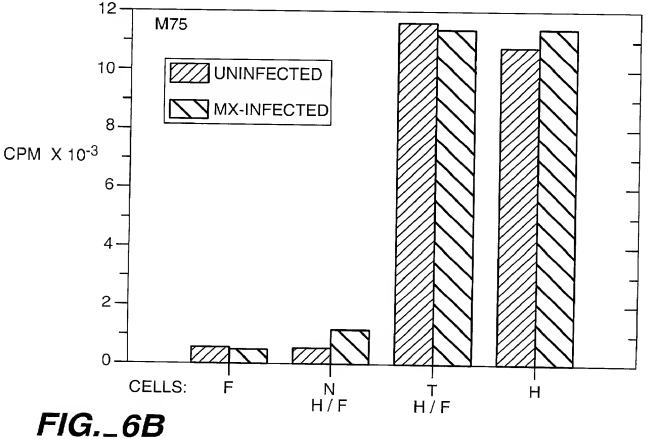

M75
UNINFECTED
MX-INFECTED
CPM X 10-3
12
10
8
6
4
2
0
CELLS:
F
N
H / F
T
H / F
H

FIG._6B

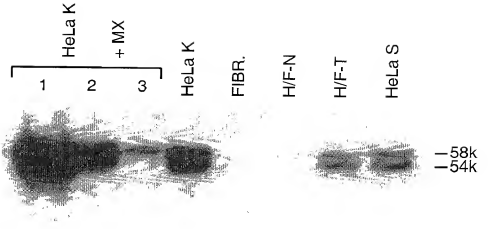

HeLa K
+ MX
1
2
3
HeLa K
FIBR.
H/F-N
H/F-T
HeLa S
58k
54k

FIG._7

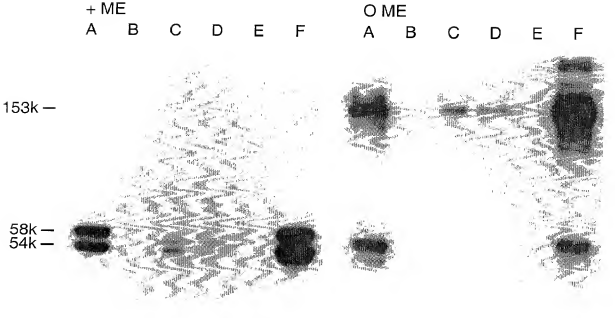

+ ME
A B C D E F
O ME
A B C D E F
153k
58k
54k

FIG._8

FIG._9

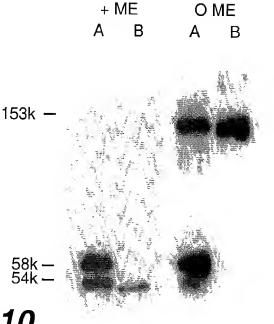


FIG._10

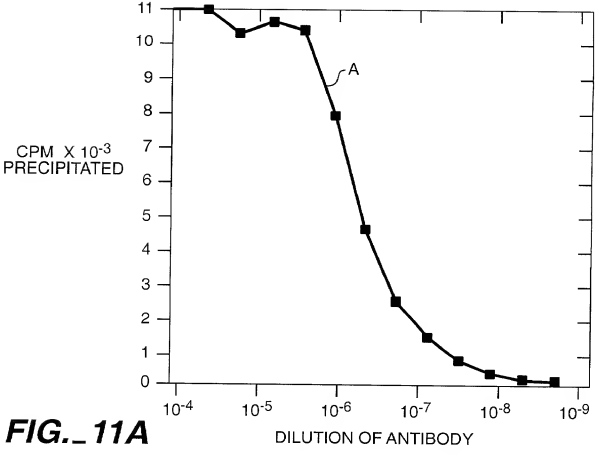


FIG._11A

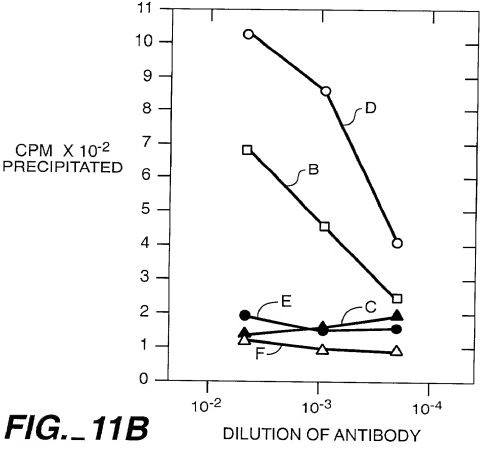


FIG._11B

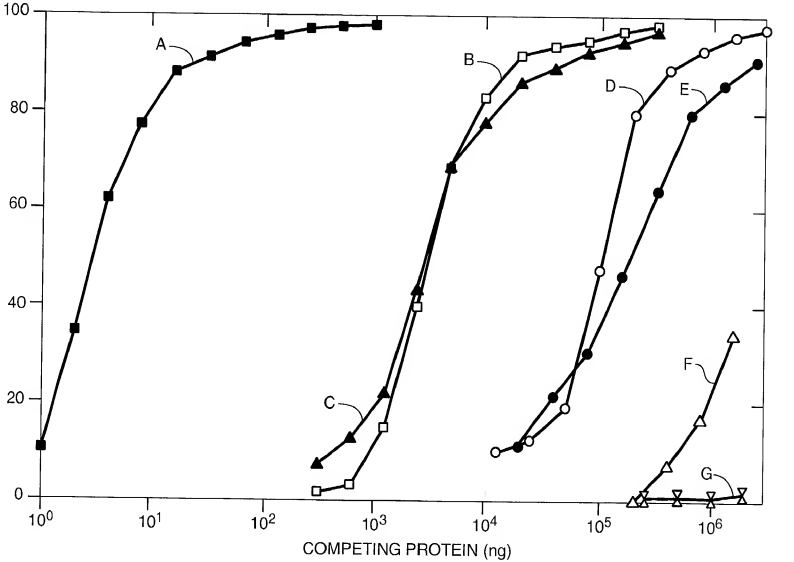

100
80
60
40
20
0
% INHIBITION
A
B
C
D
E
F
G
10^0
10^1
10^2
10^3
10^4
10^5
10^6
COMPETING PROTEIN (ng)

FIG._12

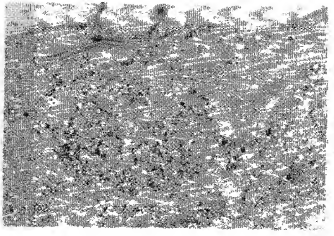


FIG._13A

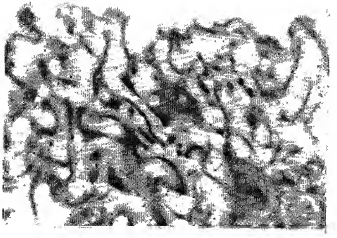


FIG._13B

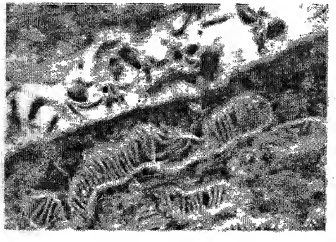


FIG._13C

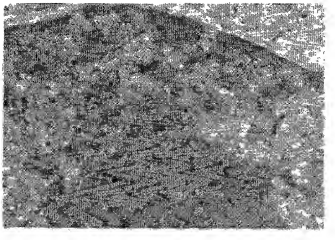


FIG._13D

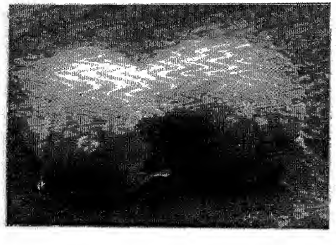


FIG._13E

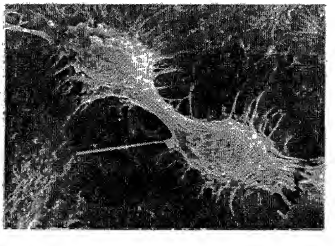


FIG._13F

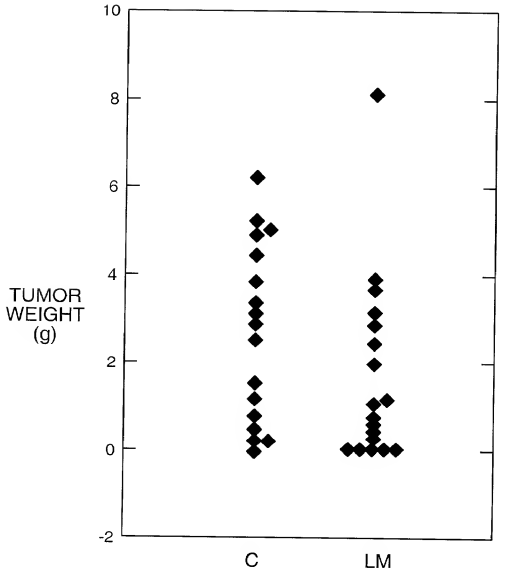


FIG._14

```
   1 ggatcctgtt gactcgtgac cttaccccca accctgtgct ctctgaaaca tgagctgtgt
  61 ccactcaggg ttaaatggat taagggcggt gcaagatgtg ctttgttaaa cagatgcttg
 121 aaggcagcat gctcgttaag agtcatcacc aatccctaat ctcaagtaat cagggacaca
 181 aacactgcgg aaggccgcag ggtcctctgc ctaggaaaac cagagacctt tgttcacttg
 241 tttatctgac cttccctcca ctattgtcca tgaccctgcc aaatcccccc ctgtgagaaa
 301 cacccaagaa ttatcaataa aaaaataaat ttaaaaaaaa aatacaaaaa aaaaaaaaaa
 361 aaaaaaaaaa gacttacgaa tagttattga taaatgaata gctattggta aagccaagta
 421 aatgatcata ttcaaaacca gacggccatc atcacagctc aagtctacct gatttgatct
 481 ctttatcatt gtcattcttt ggattcacta gattagtcat catcctcaaa attctccccc
 541 aagttctaat tacgttccaa acatttaggg gttacatgaa gcttgaacct actaccttct
 601 ttgcttttga gccatgagtt gtaggaatga tgagtttaca ccttacatgc tggggattaa
 661 tttaaacttt acctctaagt cagttgggta gcctttggct tatttttgta gctaattttg
 721 tagttaatgg atgcactgtg aatcttgcta tgatagtttt cctccacact ttgccactag
 781 gggtaggtag gtactcagtt ttcagtaatt gcttacctaa gaccctaagc cctatttctc
 841 ttgtactggc ctttatctgt aatatgggca tatttaatac aatataattt ttggagtttt
 901 tttgtttgtt tgtttgtttg ttttttgag acggagtctt gcatctgtca tgcccaggct
 961 ggagtagcag tggtgccatc tcggctcact gcaagctcca cctcccgagt tcacgccatt
1021 ttcctgcctc agcctcccga gtagctggga ctacaggcgc ccgccaccat gcccggctaa
1081 ttttttgtat ttttggtaga gacggggttt caccgtgtta gccagaatgg tctcgatctc
1141 ctgacttcgt gatccacccg cctcggcctc ccaaagttct gggattacag gtgtgagcca
1201 ccgcacctgg ccaatttttt gagtctttta aagtaaaaat atgtcttgta agctggtaac
1261 tatggtacat ttccttttat taatgtggtg ctgacggtca tataggttct tttgagtttg
1321 gcatgcatat gctacttttt gcagtccttt cattacattt ttctctcttc atttgaagag
1381 catgttatat cttttagctt cacttggctt aaaaggttct ctcattagcc taacacagtg
1441 tcattgttgg taccacttgg atcataagtg gaaaaacagt caagaaattg cacagtaata
1501 cttgtttgta agagggatga ttcaggtgaa tctgacacta agaaactccc ctacctgagg
1561 tctgagattc ctctgacatt gctgtatata ggcttttcct ttgacagcct gtgactgcgg
1621 actatttttc ttaagcaaga tatgctaaag ttttgtgagc ctttttccag agagaggtct
1681 catatctgca tcaagtgaga acatataatg tctgcatgtt tccatatttc aggaatgttt
1741 gcttgtgttt tatgctttta tatagacagg gaaacttgtt cctcagtgac ccaaaagagg
1801 tgggaattgt tattggatat catcattggc ccacgctttc tgaccttgga aacaattaag
1861 ggttcataat ctcaattctg tcagaattgg tacaagaaat agctgctatg tttcttgaca
1921 ttccacttgg taggaaataa gaatgtgaaa ctcttcagtt ggtgtgtgtc cct?gttttt
```

FIG._15A

```
1981 ttgcaatttc cttcttactg tgttaaaaaa aagtatgatc ttgctctgag aggtgaggca
2041 ttcttaatca tgatctttaa agatcaataa tataatcctt tcaaggatta tgtctttatt
2101 ataataaaga taatttgtct ttaacagaat caataatata atcccttaaa ggattatatc
2161 tttgctgggc gcagtggctc acacctgtaa tcccagcact ttgggtggcc aaggtggaag
2221 gatcaaattt gcctacttct atattatctt ctaaagcaga attcatctct cttccctcaa
2281 tatgatgata ttgacagggt ttgccctcac tcactagatt gtgagctcct gctcagggca
2341 ggtagcgttt tttgtttttg tttttgtttt tctttttttg gacagggtct tgctctgtca
2401 cccaggccag agtgcaatgg tacagtctca gctcactgca gcctcaaccg cctcggctca
2461 aaccatcatc ccatttcagc ctcctgagta gctgggacta caggcacatg ccattacacc
2521 tggctaattt ttttgtattt ctagtagaga cagggtttgg ccatgttgcc cgggctggtc
2581 tcgaactcct ggactcaagc aatccaccca cctcagcctc ccaaaatgag ggaccgtgtc
2641 ttattcattt ccatgtccct agtccatagc ccagtgctgg acctatggta gtactaaata
2701 aatatttgtt gaatgcaata gtaaatagca tttcagggag caagaactag attaacaaag
2761 gtggtaaaag gtttggagaa aaaaataata gtttaatttg gctagagtat gagggagagt
2821 agtaggagac aagatggaaa ggtctcttgg gcaaggtttt gaaggaagtt ggaagtcaga
2881 agtacacaat gtgcatatcg tggcaggcag tggggagcca atgaaggctt ttgagcagga
2941 gagtaatgtg ttgaaaaata aatataggtt aaacctatca gagcccctct gacacataca
3001 cttgcttttc attcaagctc aagtttgtct cccacatacc cattacttaa ctcaccctcg
3061 ggctccccta gcagcctgcc ctacctcttt acctgcttcc tggtggagtc agggatgtat
3121 acatgagctg ctttccctct cagccagagg acatgggggg ccccagctcc cctgcctttc
3181 cccttctgtg cctggagctg ggaagcaggc cagggttagc tgaggctggc tggcaagcag
3241 ctgggtggtg ccagggagag cctgcatagt gccaggtggt gccttgggtt ccaagctagt
3301 ccatggcccc gataaccttc tgcctgtgca cacacctgcc cctcactcca cccccatcct
3361 agctttggta tgggggagag ggcacagggc cagacaaacc tgtgagactt tggctccatc
3421 tctgcaaaag ggcgctctgt gagtcagcct gctcccctcc aggcttgctc ctcccccacc
3481 cagctctcgt ttccaatgca cgtacagccc gtacacaccg tgtgctggga caccccACAG
3541 TCAGCCGCAT GGCTCCCCTG TGCCCCAGCC CCTGGCTCCC TCTGTTGATC CCGGCCCCTG
3601 CTCCAGGCCT CACTGTGCAA CTGCTGCTGT CACTGCTGCT TCTGGTGCCT GTCCATCCCC
3661 AGAGGTTGCC CCGGATGCAG GAGGATTCCC CCTTGGGAGG AGGCTCTTCT GGGGAAGATG
3721 ACCCACTGGG CGAGGAGGAT CTGCCCAGTG AAGAGGATTC ACCCAGAGAG GAGGATCCAC
3781 CCGGAGAGGA GGATCTACCT GGAGAGGAGG ATCTACCTGG AGAGGAGGAT CTACCTGAAG
3841 TTAAGCCTAA ATCAGAAGAA GAGGGCTCCC TGAAGTTAGA GGATCTACCT ACTGTTGAGG
3901 CTCCTGGAGA TCCTCAAGAA CCCCAGAATA ATGCCCACAG GGACAAAGAA Ggtaagtggt
```

FIG._15B

```
3961 catcaatctc caaatccagg ttccaggagg ttcatgactc ccctcccata ccccagccta
4021 ggctctgttc actcagggaa ggaggggaga ctgtactccc cacagaagcc cttccagagg
4081 tcccatacca atatccccat ccccactctc ggaggtagaa agggacagat gtggagagaa
4141 aataaaaagg gtgcaaaagg agagaggtga gctggatgag atgggagaga agggggaggc
4201 tggagaagag aaagggatga gaactgcaga tgagagaaaa aatgtgcaga cagaggaaaa
4261 aaataggtgg agaaggagag tcagagagtt tgaggggaag agaaaaggaa agcttgggag
4321 gtgaagtggg taccagagac aagcaagaag agctggtaga agtcatctca tcttaggcta
4381 caatgaggaa ttgagaccta ggaagaaggg acacagcagg tagagaaacg tggcttcttg
4441 actcccaagc caggaatttg gggaaagggg ttggagacca tacaaggcag agggatgagt
4501 ggggagaaga aagaagggag aaaggaaaga tggtgtactc actcatttgg gactcaggac
4561 tgaagtgccc actcactttt tttttttttt tttttgagac aaactttcac ttttgttgcc
4621 caggctggag tgcaatggcg cgatctcggc tcactgcaac ctccacctcc cgggttcaag
4681 tgattctcct gcctcagcct ctagccaagt agctgcgatt acaggcatgc gccaccacgc
4741 ccggctaatt tttgtatttt tagtagagac ggggtttcgc catgttggtc aggctggtct
4801 cgaactcctg atctcaggtg atccaaccac cctggcctcc caaagtgctg ggattatagg
4861 cgtgagccac agcgcctggc ctgaagcagc cactcacttt tacagaccct aagacaatga
4921 ttgcaagctg gtaggattgc tgtttggccc acccagctgc ggtgttgagt ttgggtgcgg
4981 tctcctgtgc tttgcacctg gcccgcttaa ggcatttgtt acccgtaatg ctcctgtaag
5041 gcatctgcgt ttgtgacatc gttttggtcg ccaggaaggg attggggctc taagcttgag
5101 cggttcatcc ttttcattta tacagGGGAT GACCAGAGTC ATTGGCGCTA TGGAGgtgag
5161 acacccaccc gctgcacaga cccaatctgg gaacccagct ctgtggatct cccctacagc
5221 cgtccctgaa cactggtccc gggcgtccca cccgccgccc accgtcccac cccctcacct
5281 tttctacccg ggttccctaa gttcctgacc taggcgtcag acttcctcac tatactctcc
5341 caccccagGC GACCCGCCCT GGCCCCGGGT GTCCCCAGCC TGCGCGGGCC GCTTCCAGTC
5401 CCCGGTGGAT ATCCGCCCCC AGCTCGCCGC CTTCTGCCCG GCCCTGCGCC CCCTGGAACT
5461 CCTGGGCTTC CAGCTCCCGC CGCTCCCAGA ACTGCGCCTG CGCAACAATG GCCACAGTGg
5521 tgaggggtc tccccgccga gacttgggga tggggcgggg cgcagggaag ggaaccgtcg
5581 cgcagtgcct gcccgggggt tgggctggcc ctaccgggcg gggccggctc acttgcctct
5641 ccctacgcag TGCAACTGAC CCTGCCTCCT GGGCTAGAGA TGGCTCTGGG TCCCGGGCGG
5701 GAGTACCGGG CTCTGCAGCT GCATCTGCAC TGGGGGGCTG CAGGTCGTCC GGGCTCGGAG
5761 CACACTGTGG AAGGCCACCG TTTCCCTGCC GAGgtgagcg cggactggcc gagaaggggc
5821 aaaggagcgg ggcggacggg ggccagagac gtggccctct cctaccctcg tgtccttttc
5881 agATCCACGT GGTTCACCTC AGCACCGCCT TTGCCAGAGT TGACGAGGCC TTGGGGCGCC
```

FIG._15C

5941	CGGGAGGCCT	GGCCGTGTTG	GCCGCCTTTC	TGGAGgtacc	agatcctgga	caccccctac
6001	tccccgcttt	cccatcccat	gctcctcccg	gactctatcg	tggagccaga	gaccccatcc
6061	cagcaagctc	actcaggccc	ctggctgaca	aactcattca	cgcactgttt	gttcatttaa
6121	cacccactgt	gaaccaggca	ccagccccca	acaaggattc	tgaagctgta	ggtccttgcc
6181	tctaaggagc	ccacagccag	tgggggaggc	tgacatgaca	gacacatagg	aaggacatag
6241	taaagatggt	ggtcacagag	gaggtgacac	ttaaagcctt	cactggtaga	aaagaaaagg
6301	aggtgttcat	tgcagaggaa	acagaatgtg	caaagactca	gaatatggcc	tatttaggga
6361	atggctacat	acaccatgat	tagaggaggc	ccagtaaagg	gaagggatgg	tgagatgcct
6421	gctaggttca	ctcactcact	tttatttatt	tatttatttt	tttgacagtc	tctctgtcgc
6481	ccaggctgga	gtgcagtggt	gtgatcttgg	gtcactgcaa	cttccgcctc	ccgggttcaa
6541	gggattctcc	tgcctcagct	tcctgagtag	ctggggttac	aggtgtgtgc	caccatgccc
6601	agctaatttt	tttttgtatt	tttagtagac	agggtttcac	catgttggtc	aggctggtct
6661	caaactcctg	gcctcaagtg	atccgcctga	ctcagcctac	caaagtgctg	attacaagtg
6721	tgagccaccg	tgcccagcca	cactcactga	ttctttaatg	ccagccacac	agcacaaagt
6781	tcagagaaat	gcctccatca	tagcatgtca	atatgttcat	actcttaggt	tcatgatgtt
6841	cttaacatta	ggttcataag	caaaataaga	aaaaagaata	ataaataaaa	gaagtggcat
6901	gtcaggacct	cacctgaaaa	gccaaacaca	gaatcatgaa	ggtgaatgca	gaggtgacac
6961	caacacaaag	gtgtatatat	ggtttcctgt	ggggagtatg	tacggaggca	gcagtgagtg
7021	agactgcaaa	cgtcagaagg	gcacgggtca	ctgagagcct	agtatcctag	taaagtgggc
7081	tctctccctc	tctctccagc	ttgtcattga	aaaccagtcc	accaagcttg	ttggttcgca
7141	cagcaagagt	acatagagtt	tgaaataata	cataggattt	taagagggag	acactgtctc
7201	taaaaaaaaa	aacaacagca	acaacaaaaa	gcaacaacca	ttacaatttt	atgttccctc
7261	agcattctca	gagctgagga	atgggagagg	actatgggaa	cccccttcat	gttccggcct
7321	tcagccatgg	ccctggatac	atgcactcat	ctgtcttaca	atgtcattcc	cccagGAGGG
7381	CCCGGAAGAA	AACAGTGCCT	ATGAGCAGTT	GCTGTCTCGC	TTGGAAGAAA	TCGCTGAGGA
7441	AGgtcagttt	gttggtctgg	ccactaatct	ctgtggccta	gttcataaag	aatcaccctt
7501	tggagcttca	ggtctgaggc	tggagatggg	ctccctccag	tgcaggaggg	attgaagcat
7561	gagccagcgc	tcatcttgat	aataaccatg	aagctgacag	acacagttac	ccgcaaacgg
7621	ctgcctacag	attgaaaacc	aagcaaaaac	cgccgggcac	ggtggctcac	gcctgtaatc
7681	ccagcacttt	gggaggccaa	ggcaggtgga	tcacgaggtc	aagagatcaa	gaccatcctg
7741	gccaacatgg	tgaaacccca	tctctactaa	aaatacgaaa	aaatagccag	gcgtggtggc
7801	gggtgcctgt	aatcccagct	actcgggagg	ctgaggcagg	agaatggcat	gaacccggga
7861	ggcagaagtt	gcagtgagcc	gagatcgtgc	cactgcactc	cagcctgggc	aacagagcga

FIG._15D

```
7921 gactcttgtc tcaaaaaaaa aaaaaaaaaa gaaaaccaag caaaaaccaa aatgagacaa
7981 aaaaaacaag accaaaaaat ggtgtttgga aattgtcaag gtcaagtctg gagagctaaa
8041 ctttttctga gaactgttta tctttaataa gcatcaaata ttttaacttt gtaaatactt
8101 ttgttggaaa tcgttctctt cttagtcact cttgggtcat tttaaatctc acttactcta
8161 ctagaccttt taggtttctg ctagactagg tagaactctg cctttgcatt tcttgtgtct
8221 gttttgtata gttatcaata ttcatattta tttacaagtt attcagatca ttttttcttt
8281 tctttttttt ttttttttt ttttttacat ctttagtaga gacagggttt caccatattg
8341 gccaggctgc tctcaaactc ctgaccttgt gatccaccag cctcggcctc ccaaagtgct
8401 gggattcatt ttttcttttt aatttgctct gggcttaaac ttgtggccca gcactttatg
8461 atggtacaca gagttaagag tgtagactca gacggtcttt cttctttcct tctcttcctt
8521 cctcccttcc ctcccacctt cccttctctc cttcctttct ttcttcctct cttgcttcct
8581 caggcctctt ccagttgctc caaagccctg tacttttttt tgagttaacg tcttatggga
8641 agggcctgca cttagtgaag aagtggtctc agagttgagt taccttggct tctgggaggt
8701 gaaactgtat ccctataccc tgaagcttta agggggtgca atgtagatga gaccccaaca
8761 tagatcctct tcacagGCTC AGAGACTCAG GTCCCAGGAC TGGACATATC TGCACTCCTG
8821 CCCTCTGACT TCAGCCGCTA CTTCCAATAT GAGGGGTCTC TGACTACACC GCCCTGTGCC
8881 CAGGGTGTCA TCTGGACTGT GTTTAACCAG ACAGTGATGC TGAGTGCTAA GCAGgtgggc
8941 ctggggtgtg tgtggacaca gtgggtgcgg gggaaagagg atgtaagatg agatgagaaa
9001 caggagaaga aagaaatcaa ggctgggctc tgtggcttac gcctataatc ccaccacgtt
9061 gggaggctga ggtgggagaa tggtttgagc ccaggagttc aagacaaggc ggggcaacat
9121 agtgtgaccc catctctacc aaaaaaaccc caacaaaacc aaaaatagcc gggcatggtg
9181 gtatgcggcc tagtcccagc tactcaagga ggctgaggtg ggaagatcgc ttgattccag
9241 gagtttgaga ctgcagtgag ctatgatccc accactgcct accatcttta ggatacattt
9301 atttatttat aaaagaaatc aagaggctgg atggggaata caggagctgg agggtggagc
9361 cctgaggtgc tggttgtgag ctggcctggg acccttgttt cctgtcatgc catgaaccca
9421 cccacactgt ccactgacct ccctagCTCC ACACCCTCTC TGACACCCTG TGGGGACCTG
9481 GTGACTCTCG GCTACAGCTG AACTTCCGAG CGACGCAGCC TTTGAATGGG CGAGTGATTG
9541 AGGCCTCCTT CCCTGCTGGA GTGGACAGCA GTCCTCGGGC TGCTGAGCCA Ggtacagctt
9601 tgtctggttt ccccccagcc agtagtccct tatcctccca tgtgtgtgcc agtgtctgtc
9661 attggtggtc acagcccgcc tctcacatct ccttttctc tccagTCCAG CTGAATTCCT
9721 GCCTGGCTGC TGgtgagtct gcccctcctc ttggtcctga tgccaggaga ctcctcagca
9781 ccattcagcc ccagggctgc tcaggacgc ctctgctccc tctccttttc tgcagaacag
9841 accccaaccc caatattaga gaggcagatc atggtgggga ttcccccatt gtccccagag
```

FIG._15E

```
 9901 gctaattgat tagaatgaag cttgagaaat ctcccagcat ccctctcgca aaagaatccc
 9961 ccccccttttt tttaaagata gggtctcact ctgtttgccc caggctgggg tgttgtggca
10021 cgatcatagc tcactgcagc ctcgaactcc taggctcagg caatcctttc accttagctt
10081 ctcaaagcac tgggactgta ggcatgagcc actgtgcctg gccccaaacg gccctttac
10141 ttggctttta ggaagcaaaa acggtgctta tcttacccct tctcgtgtat ccaccctcat
10201 cccttggctg gcctcttctg gagactgagg cactatgggg ctgcctgaga actcggggca
10261 ggggtggtgg agtgcactga ggcaggtgtt gaggaactct gcagacccct cttccttccc
10321 aaagcagccc tctctgctct ccatcgcagG TGACATCCTA GCCCTGGTTT TTGGCCTCCT
10381 TTTTGCTGTC ACCAGCGTCG CGTTCCTTGT GCAGATGAGA AGGCAGCACA Ggtattacac
10441 tgacccttttc ttcaggcaca agcttccccc acccttgtgg agtcacttca tgcaaagcgc
10501 atgcaaatga gctgctcctg ggccagtttt ctgattagcc tttcctgttg tgtacacaca
10561 gAAGGGGAAC CAAAGGGGGT GTGAGCTACC GCCCAGCAGA GGTAGCCGAG ACTGGAGCCT
10621 AGAGGCTGGA TCTTGGAGAA TGTGAGAAGC CAGCCAGAGG CATCTGAGGG GGAGCCGGTA
10681 ACTGTCCTGT CCTGCTCATT ATGCCACTTC CTTTTAACTG CCAAGAAATT TTTTAAAATA
10741 AATATTTATA ATaaaatatg tgttagtcac ctttgttccc caaatcagaa ggaggtattt
10801 gaatttccta ttactgttat tagcaccaat ttagtggtaa tgcatttatt ctattacagt
10861 tcggcctcct tccacacatc actccaatgt gttgctcc
```

FIG._15F

FIG._15

FIG._15A
FIG._15B
FIG._15C
FIG._15D
FIG._15E
FIG._15F

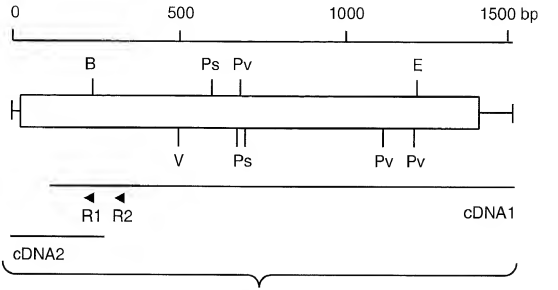


FIG._16

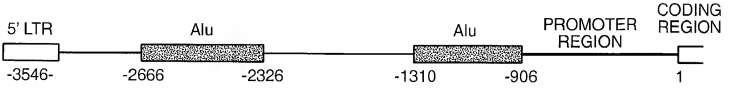


FIG._20

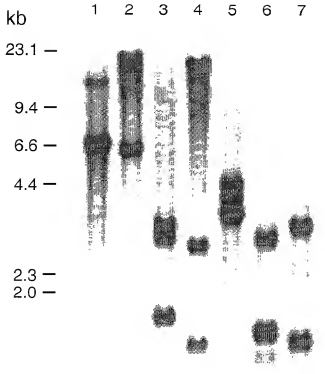


FIG._17

FIG._18A

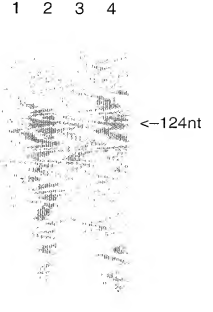


FIG._18B

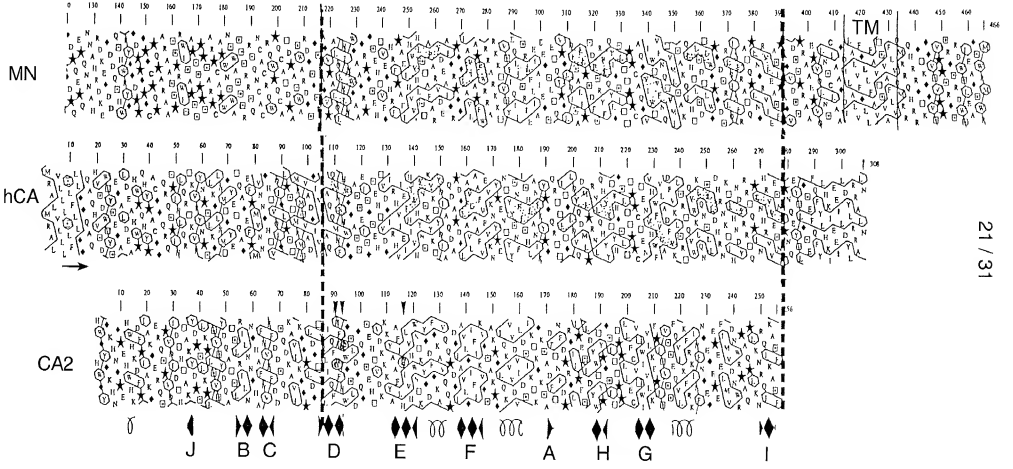


FIG._19A

FIG._19B

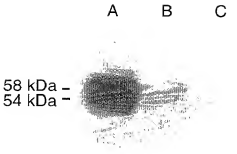


FIG._21A

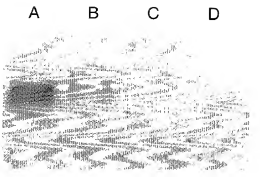


FIG._21B

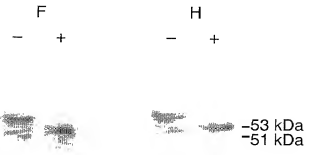


FIG._21C

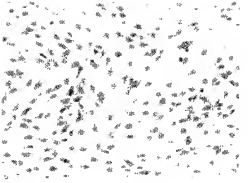


FIG._22A

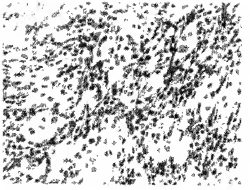


FIG._22B

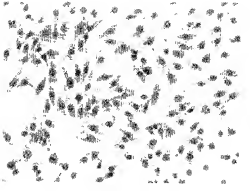


FIG._22C

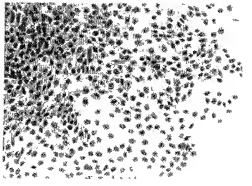


FIG._22D

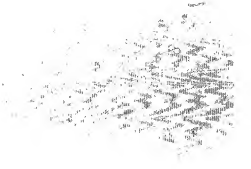


FIG._22E

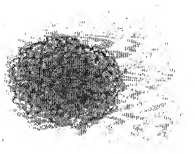


FIG._22F

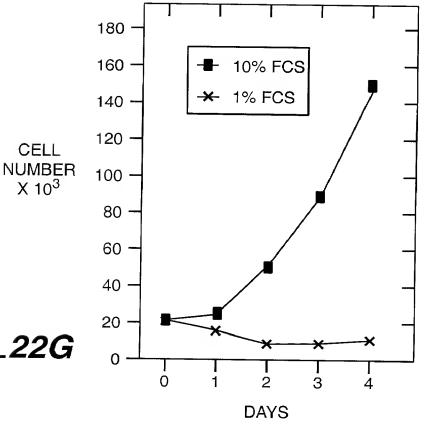


FIG._22G

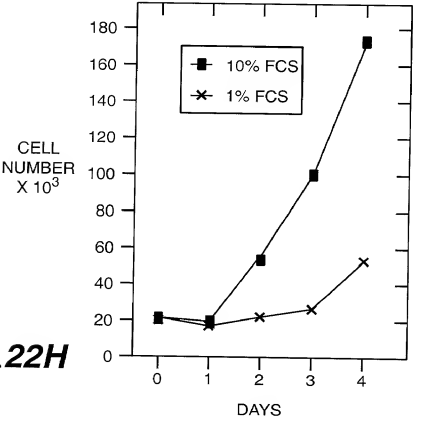


FIG._22H

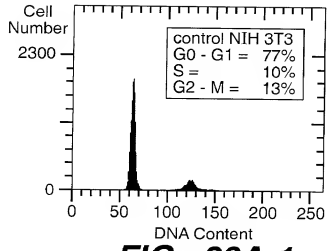


FIG._23A-1

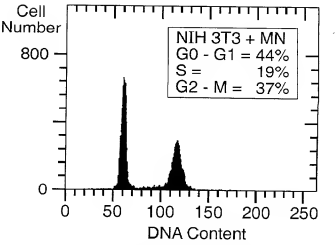


FIG._23A-2

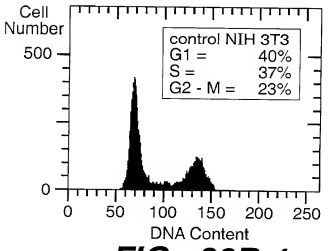


FIG._23B-1

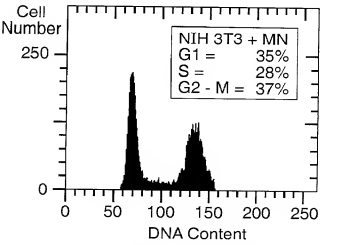


FIG._23B-2

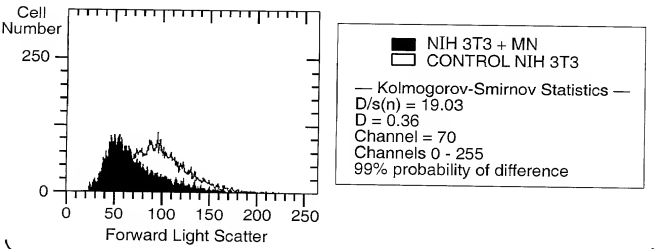
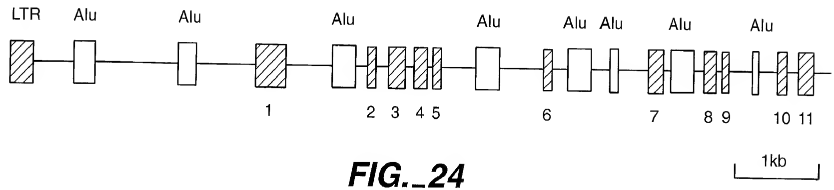


FIG._23C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Alu
Alu
Alu
Alu
Alu
Alu
Alu
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2
3
4
5
6
7
8
9
10
11
1kb

FIG._24

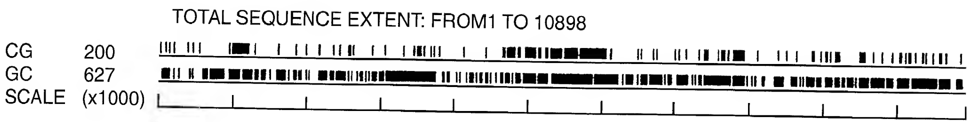
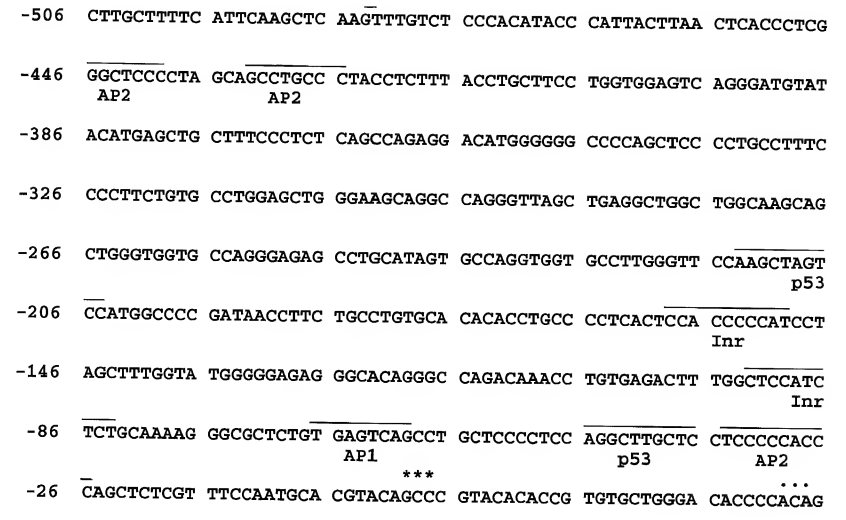

TOTAL SEQUENCE EXTENT: FROM1 TO 10898
CG 200
GC 627
SCALE (x1000)

FIG._26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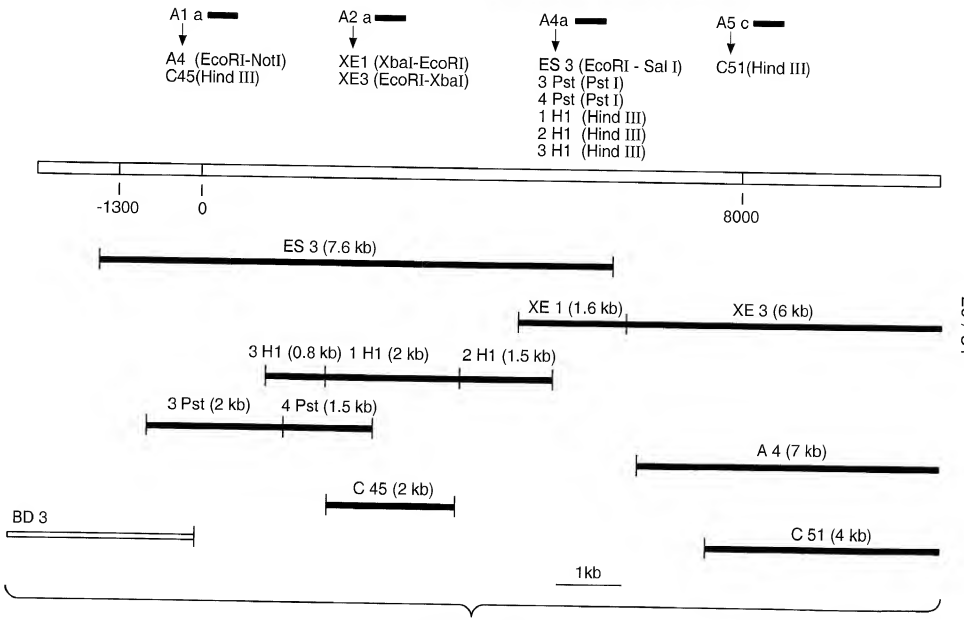
-446 GGCTCCCCTA GCAGCCTGCC CTACCTCTTT ACCTGCTTCC TGGTGGAGTC AGGGATGTAT
AP2
AP2
-386 ACATGAGCTG CTTTCCCTCT CAGCCAGAGG ACATGGGGGG CCCCAGCTCC CCTGCCTTTC
-326 CCCTTCTGTG CCTGGAGCTG GGAAGCAGGC CAGGGTTAGC TGAGGCTGGC TGGCAAGCAG
-266 CTGGGTGGTG CCAGGGAGAG CCTGCATAGT GCCAGGTGGT GCCTTGGGTT CCAAGCTAGT
p53
-206 CCATGGCCCC GATAACCTTC TGCCTGTGCA CACACCTGCC CCTCACTCCA CCCCCATCCT
Inr
-146 AGCTTTGGTA TGGGGGAGAG GGCACAGGGC CAGACAAACC TGTGAGACTT TGGCTCCATC
Inr
-86 TCTGCAAAAG GGCGCTCTGT GAGTCAGCCT GCTCCCCTCC AGGCTTGCTC CTCCCCCACC
AP1
p53
AP2
***
-26 CAGCTCTCGT TTCCAATGCA CGTACAGCCC GTACACACCG TGTGCTGGGA CACCCCACAG

FIG._25


A1 a
A4 (EcoRI-NotI)
C45(Hind III)
A2 a
XE1 (XbaI-EcoRI)
XE3 (EcoRI-XbaI)
A4a
ES 3 (EcoRI - Sal I)
3 Pst (Pst I)
4 Pst (Pst I)
1 H1 (Hind III)
2 H1 (Hind III)
3 H1 (Hind III)
A5 c
C51(Hind III)
-1300
0
8000
ES 3 (7.6 kb)
XE 1 (1.6 kb)
XE 3 (6 kb)
3 H1 (0.8 kb)
1 H1 (2 kb)
2 H1 (1.5 kb)
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4 Pst (1.5 kb)
A 4 (7 kb)
C 45 (2 kb)
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C 51 (4 kb)
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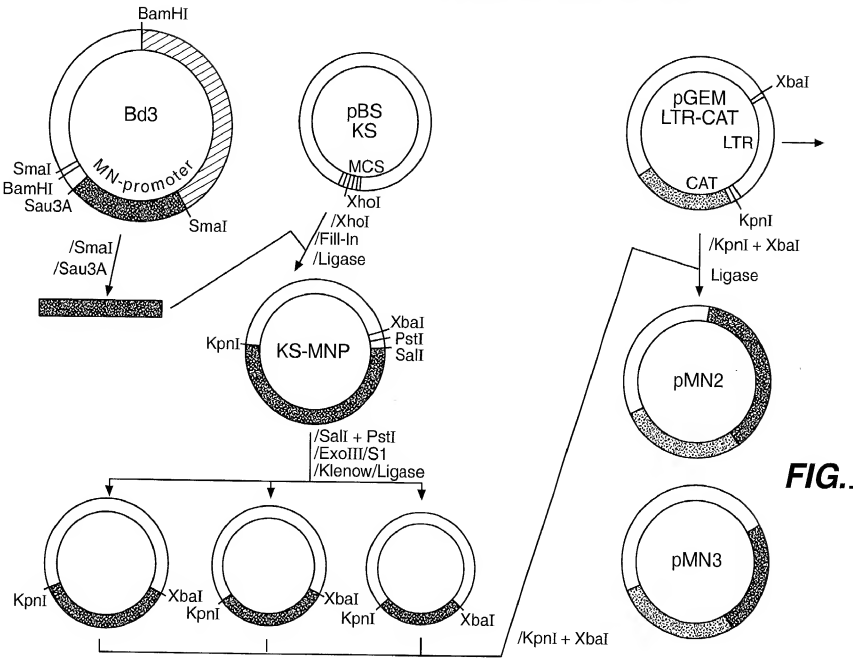
FIG._27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SmaI
BamHI
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MN-promoter
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/Sau3A
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/XhoI
/Fill-In
/Ligase
KpnI
KS-MNP
XbaI
PstI
SalI
/SalI + PstI
/ExoIII/S1
/Klenow/Ligase
KpnI
XbaI
KpnI
XbaI
KpnI
XbaI
/KpnI + XbaI
pGEM
LTR-CAT
XbaI
LTR
CAT
KpnI
/KpnI + XbaI
Ligase
pMN2
pMN3

FIG._28

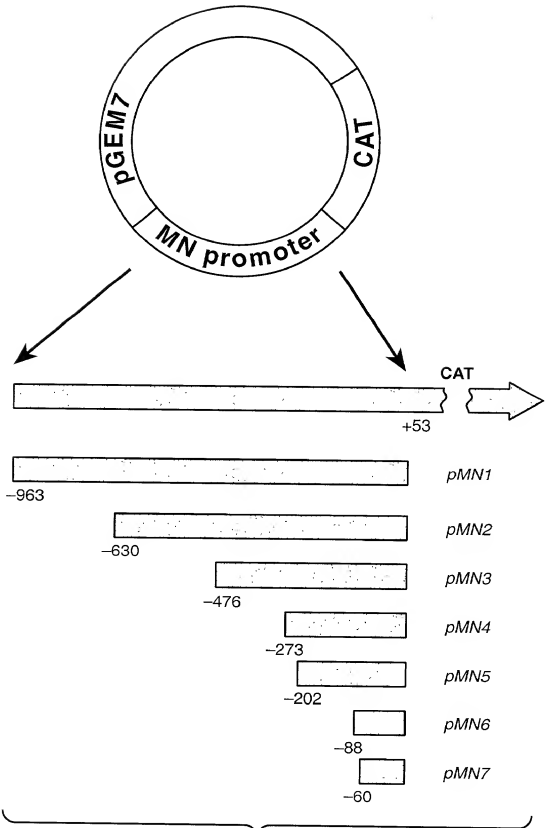
pGEM7
CAT
MN promoter
CAT
+53
pMN1
−963
pMN2
−630
pMN3
−476
pMN4
−273
pMN5
−202
pMN6
−88
pMN7
−60

FIG._29